

Title (en)
SHIELDING AGAINST LASER BEAMS

Title (de)
ABSCHIRMUNG GEGEN LASERSTRAHLEN

Title (fr)
ECRAN DE PROTECTION CONTRE DES RAYONS LASER

Publication
EP 1159104 A1 20011205 (DE)

Application
EP 00918675 A 20000225

Priority
• DE 0000531 W 20000225
• DE 19908630 A 19990227

Abstract (en)
[origin: DE19908630A1] When a workpiece (1) is perforated by means of a laser beam (2), a shielding (4) is arranged behind the opening (3) that is to be produced by said laser beam. The shielding (4) is arranged in the direction of the beam. The laser beam is destructured on said shielding (4) by means of scattering, reflections and/or absorption within a greater volume or in a greater optical path length. Workpiece areas (1'') or machine parts are thus protected behind the shielding (4).

IPC 1-7
B23K 26/18; **B23K 26/00**

IPC 8 full level
B23K 26/00 (2014.01); **B23K 26/18** (2006.01); **B23K 26/382** (2014.01); **B23K 26/402** (2014.01); **B23K 26/70** (2014.01)

CPC (source: EP)
B23K 26/009 (2013.01); **B23K 26/18** (2013.01); **B23K 26/382** (2015.10); **B23K 26/389** (2015.10); **B23K 26/704** (2015.10); **B23K 2103/42** (2018.07); **B23K 2103/50** (2018.07)

Citation (search report)
See references of WO 0051778A1

Cited by
CN106457476A; US10252931B2; US11111170B2; WO2015094898A3; US10730783B2; US11130701B2; US9850159B2; US10626040B2; US10752534B2; US11648623B2; US9815730B2; US9850160B2; US10392290B2; US10144093B2; US10293436B2; US11148225B2; US10173916B2; US10335902B2; US10442719B2; US10597321B2; US9676167B2; US10047001B2; US10179748B2; US11014845B2; US10522963B2; US10611667B2; US11542190B2; US11773004B2; US10421683B2; US11028003B2; US11345625B2; US11774233B2; US11078112B2; US11972993B2; US10526234B2; US11062986B2; US10377658B2; US10525657B2; US9701563B2; US10183885B2; US10233112B2; US10280108B2; US10611668B2; US11114309B2; US11713271B2; US9815144B2; US10688599B2; US11186060B2; US11697178B2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
DE 19908630 A1 20000831; DE 50007382 D1 20040916; EP 1159104 A1 20011205; EP 1159104 B1 20040811; WO 0051778 A1 20000908

DOCDB simple family (application)
DE 19908630 A 19990227; DE 0000531 W 20000225; DE 50007382 T 20000225; EP 00918675 A 20000225